Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **65919** | Service: **DTS** | Call Sign: **WHKY-TV** | Channel: **14 (UHF)**

File Number: **0000029026**

FRN: **0006555957** | Date Submitted: **05/04/2021**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
LONG COMMUNICATIONS, LLC. Doing Business As: LONG COMMUNICATIONS, LLC.	Thomas Long Jr 526 MAIN AVENUE SE HICKORY, NC 28602 United States	+1 (828) 324-5265	TLONGJR@WHKY.COM	Limited Liability Company

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Thomas Edmund Long , Jr . *Director of Engineering* *Long Communications, LLC*	WHKY 526 Main Ave SE Hickory, NC 28602 United States	+1 (828) 324-5265	tlongjr@whky.com

Broadcaster Information and Transition Plan

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	WHKY-TV is a 2-site DTS system. The DTS1 facility will operate with an interim channel 40 antenna during its transition at it's studio tower. The DTS2 facility operate with the current antenna using a new transmission line during its transition.

Transmitters

Section	Question	Response
Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

Primary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	1
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	Sigma Plus
	Year	2006
	Type	Inductive Output Tube
	IOT Power Type	Other
	Other IOT Power Type	4
	Power Capacity	120 kW

Primary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	THU9-60 EV0
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	88.5 kW
	Justification for New Transmitter	Current transmitter is a Harris IOT running 4 IOT's that can make up to 120 kW DTV. Transmitter can make full power running only 2 of the 4 tubes. Transmitter is set up to run 2 or 4 tubes only.

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No

	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	Yes
	Size	4 inches
	Length	100.0 feet
	Other Electrical Service	Yes
	Description	Cooling system and control wiring.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	20 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Information not provided.

Primary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	2
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	NE710
	Year	1999
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	2 kW

Primary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	TMU9-5
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	3 kW
	Justification for New Transmitter	Current 2 KW transmitter will not tune from ch 40 to ch 14

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	2 inches
	Length	75.0 feet
	Other Electrical Service	Yes

	Description	Support for cooling system and outside equipment
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	5

Primary Transmitter

Other Transmitter Cost Not Listed

Information not provided.

Interim Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	THU9-12 EV0
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	19 kW
	Justification for New Transmitter	Need transmitter to operate during the transfer time from channel 40 to 14 at the main studio into a current channel 40 antenna that is on the studio tower. See problems with transfer to channel 14.

Interim Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	Yes

	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	Yes
	Size	4 inches
	Length	175.0 feet
	Other Electrical Service	Yes
	Description	Replacement of the current 208 volt feed to the studio. The 480 feed was removed at the end of analog transmission. We will have to feed the 208 volt feed from the 480 feed.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	20 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	30

Inside RF System	Is an additional interior RF system required to support this interim transmitter?	Yes

Interim Transmitter

Other Transmitter Cost Not Listed

Information not provided.

Antennas

Section	Question	Response
Antenna Related Expenses	Do you have antenna related expenses?	Yes

Primary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	1
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	950.0 kW

Manufacturer	
Model	ATW25HS3-HSWC-40H
Year	2009

Primary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	

	Model	ATW19H3-ESCX-14H
	Year	2019
	Justification for New Antenna	Existing antenna will not function on new channel and cannot be retuned.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes

Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary Antenna

Other Antenna Cost Not Listed

Information not provided.

Primary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	2
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Circular
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	18.0 kW

Manufacturer	
Model	ALP12L4-CSBR-40
Year	2011

Primary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	10.2 kW
	Manufacturer	

	Model	ALP16M4-ESBR-14
	Year	2019
	Justification for New Antenna	Existing antenna will not function on new channel and cannot be retuned.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes

Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary Antenna

Other Antenna Cost Not Listed

Information not provided.

Interim Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Rent Temporary
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	600.0 kW
	Manufacturer	
	Model	ATW16H3-HSP5-14
	Year	2004

	Justification for New Antenna	This is the former channel 14 main antenna located at the WHKY-TV studio location that will be employed as an interim antenna for the transition to channel 14.

Interim Antenna

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Interim Antenna

Other Antenna Cost Not Listed

Information not provided.

Transmission Line

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	1
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	210 feet per run

Primary Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	250 feet per run
	Justification for New Transmission Line	Length of line for channel 40 was wrong for channel 14 per ERI table. Need 20 foot sections for channel 14.

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Primary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	2
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Waveguide
	Diameter	N/A
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	750 feet per run

Primary Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	800 feet per run
	Justification for New Transmission Line	The the frequency cutoff for the existing WR1500 waveguide is channel 18 and the waveguide is not usable at channel 14.

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Interim Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Lease New
	Type	Rigid
	Diameter	7 3/16 inches
	Segment Length	20'
	Other Segment Length	
	Number of parallel runs	1
	Length	560 feet per run
	Justification for New Transmission Line	This is the existing transmission line at the WHKY-TV studio that will be utilized for the interim transmitting antenna mounted on the studio tower.

Interim Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Interim Transmission Line

New Transmission Line

Section	Question	Response
New Transmission	Use	Interim

Line Costs

Description of Use	N/A
Change Type	Purchase New
Type	Flexible Air
Diameter	5 inches
Segment Length	N/A
Other Segment Length	
Number of parallel runs	1
Length	750 feet per run
Justification for New Transmission Line	Interim antenna system is necessary to ensure uninterrupted service during transition to Channel 14. Implementation delays are anticipated due to land mobile protection issues.

Interim Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Tower Equipment And Rigging Costs

Section	Question	Response
Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	Yes

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1005065
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	35° 17' 15.0" N-
	Longitude (NAD83)	080° 41' 44.0" W-
	Overall Structure Height	1246.70 feet
	Support Structure Height	1197.49 feet
	Ground Elevation Above Mean Sea Level (AMSL)	715.21 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Central Piedmont Community College
Date Constructed	08/01/1992

FM, AM or TV radio broadcasters. Facility ID's, Call Signs and Services of other broadcast stations with whom the tower is shared

Facility ID	Call Sign	Service
69436	WFAE	FM
53970	WRFX	FM
10645	WTVI	DTV

Other Types of Users

Users
ENG Microwave

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Minor Reinforcements needed

Primary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	No

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	No
	Others Types of Users	Yes
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	No
	ASR Number	
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	35° 39' 28.5" N-
	Longitude (NAD83)	081° 24' 23.3" W-
	Overall Structure Height	190.00 feet
	Support Structure Height	190.00 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1742.00 feet
	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	Long Communications, LLC
	Date Constructed	01/01/2005

Other Types of Users

Users
FM Trans W272DU
Duke Energy

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	No reinforcements needed

Primary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	No

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

Interim Tower

Tower Construction Costs

Section	Question	Response
Construct New Tower	Use	Interim
	Description of Use	N/A
	Height	487.00 feet
	Justification for New Tower	This is the current studio tower. No new tower construction or modifications are expected.

Interim Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	No

Interim Tower

Other Tower Expenses Not Listed

Information not provided.

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	250
	Explanation	Station does not have internal resources to make changes needed for the channel moves at three sites. Will rely on outside services for this project.
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	Do you have Distributed Transmission System engineering services?	Yes
	Critical Facility	1
	Terrain-Shielded Facility	0

Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	No
	Additional Field Engineering Service	Yes
	Number of Days	60
	Justification	Channel 14 DTS with land mobile

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
399 Outside work services	Work on Form 399 for reimbursement expenses

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	Yes
	Name	DTS Field measurements
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses

Other Expenses Not Listed

Name	Description
Channel 14 Land Mobile Coordination notification letters	Channel 14 land mobile Coordination notification letters
DTS 1 and 2 Inside Patch Panels	This is for inside Transmission line for DTS 1 and DtS 2 Sites. This supports connecting the transmitters, filters, and antenna systems together.
DTS 1 and 2 Inside Transmission Line	This is for inside Transmission line for DTS 1 and DtS 2 Sites. This supports connecting the transmitters, filters, and antenna systems together.
DTS1 Ch 14 tempory Filter	Delivery of filter for CH 14 is not going to deliver by Sept 6th of 2019. We are moving a used filter from another station that can be used until arrival of the new filter.
DTS2 Ch 14 tempory Filter	Delivery of filter for CH 14 is not going to deliver by Sept 6th of 2019. We are moving a used filter from another station that can be used until arrival of the new filter.
File Change to CP to make antennas match CP	File Change to CP to make antennas match CP for DTS1 and DTS2. Patterns did not match original file data as built.
Master Clock System for DTS Timing	Master Clock System for DTS Timing. System for DTS 0 DTS 1 DTS2 and Studio. Original system would not work with later Rohde & Schwarz Exciters and DTS Studio adapters.
Move UPS for DTS1	Station need to relocate Large UPS to make room for new transmitter
Paint of inside DTS1 building	Paint of inside DTS1 building after removal of old AC systems and Harris IOT Transmitter
Remove 2 Cab of 4 cab IOT TX	Remove 2 Cab of 4 cab IOT TX. Config to run without driver that will not run on ch 14
Road Work DTS 1 Baker Mt	Perform Road work on Baker Mt DTS 1 site. Work is to allow large trucks to get up Mt to deliver transmitters and antennas to Mt top.
Roof work for DTS1	Make changes to roof to remove old AC system and transmitter

SFN Adapter	SFN Adapter for ATSC1
Water system tray support DTS1	Water system tray support DTS1 to support waters lines from transmitter to pumps to outside heat ex-changers.
Copper Ground Strap	Copper Ground Strap used to ground transmitter at WHKY DTS0 DTS1 and DTS2

Cost Information

Transmitters

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmitter THU9-12 EV0	**$1,301,435.00**	**$1,038,213.64**		**$499,274.77**	
UHF inside RF system including switching	$147,500.00	$140,000.00	N/A	N/A	N/A
Additional field engineering time, 10-30 days	$63,100.00	$60,000.00	N/A	N/A	N/A
Channel 14 Mask Filter	$189,500.00	$180,000.00	N/A	$0.00	N/A
RF Consulting Engineer	$5,260.00	$5,000.00	N/A	N/A	N/A
Other -- HVAC Service Type: C Size: 20 (Other)	*$65,000.00*	$65,000.00	Add additional 20 ton system to building for cooling of solid state transmitter	$63,989.13	N/A

Other Electrical Service: Replacement of the current 208 volt feed to the studio. The 480 feed was removed at the end of analog transmission. We will have to feed the 208 volt feed from the 480 feed.	***$40,000.00***	$40,000.00	Replace current 208 volt feed to studio with 480 feed. Replacement of power transformer and switch gear, wire.	N/A	N/A
4" Rigid Conduit and Wiring (Cost per foot)	$17,675.00	$16,800.00	N/A	$0.00	N/A
Transformer 3 phase /480v - 300 KVA	$36,800.00	$35,000.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	$38,200.00	$36,300.00	N/A	N/A	N/A
Service entrance 3 phase/800 amp/208 volt	$14,400.00	$13,700.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	$684,000.00	$446,413.64	***System Notice: Estimate adjusted and locked because line has been superseded. ***	$435,285.64	N/A

Primary Transmitter THU9-60 EV0	**$2,805,100.00**	**$660,089.50**		**$551,679.29**	
Other -- HVAC Service Type: C Size: 20 (Other)	***$55,000.00***	$55,000.00	provide 20 ton air conditioning system fro cooling of solid state transmitter	$36,789.00	N/A
Other Electrical Service: Cooling system and control wiring.	***$35,000.00***	$35,000.00	Provide control and cooling system wiring for new transmitter.	$25,700.79	N/A
4" Rigid Conduit and Wiring (Cost per foot)	$10,100.00	$9,600.00	N/A	N/A	N/A
Transformer 3 phase /480v - 300 KVA	$36,800.00	$35,000.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	$38,200.00	$36,300.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 86.8 . 106 kW	$2,630,000.00	$489,189.50	***System Notice: Estimate adjusted and locked because line has been superseded. ***	$489,189.50	N/A
Primary Transmitter TMU9-5	**$412,378.31**	**$401,293.31**		**$163,990.31**	

Channel 14 -- Additional field engineering time, 5 days	***$10,000.00***	$10,000.00	Provide engineering for channel 14, land mobile problems.	N/A	N/A
Channel 14 Mask Filter	$189,500.00	$180,000.00	N/A	N/A	N/A
Other Electrical Service: Support for cooling system and outside equipment	***$5,000.00***	$5,000.00	Cooling system wiring for control and pumps systems	N/A	N/A
2" Rigid Conduit and Wiring (Cost per foot)	$1,950.00	$1,875.00	N/A	N/A	N/A
Transformer 3 phase /480v - 150 KVA	$25,550.00	$24,300.00	N/A	N/A	N/A
RF Consulting Engineer	$5,260.00	$5,000.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 3 kW	***$175,118.31***	$175,118.31	***System Notice: Estimate adjusted and locked because line has been superseded. ***	$163,990.31	N/A
Sub-total	$4,518,913.31	$2,099,596.45	N/A	$1,214,944.37	N/A
Total for all systems	$6,791,211.64	$3,939,265.88	N/A	$2,183,804.88	N/A

Components

Actual Information Description	File Name
UHF inside RF system including switching	Information not provided.
Additional field engineering time, 10-30 days	Information not provided.
Channel 14 Mask Filter	Information not provided.
RF Consulting Engineer	Information not provided.
Other -- HVAC Service Type: C Size:20 (Other)	**Component Description:** AC Units to Support DTS 0 **Amount:** $32,846.00 **Component Description:** Invoice for Chiller Services to relocate Chiller and water lines for install of new AC system to support solid state R&S transmitter. **Amount:** $31,143.13
Other Electrical Service: Replacement of the current 208 volt feed to the studio. The 480 feed was removed at the end of analog transmission. We will have to feed the 208 volt feed from the 480 feed.	Information not provided.
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Transformer 3 phase/480v - 300 KVA	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
Service entrance 3 phase /800 amp/208 volt	Information not provided.

UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	**Component Description:** **Amount:**	25% down payment to Rohde and Schwarz for DTS0 Transmitter $101,702.25
	Component Description: **Amount:**	Rohde and Schwarz invoice for final 75% payment. This is the tax part of this invoice/ $28,476.64
	Component Description: **Amount:**	75% final payment to Rohde and Schwarz for DTS0 Transmitter. this invoice includes tax (29,204.64) that is not on the quote provided by R&S. $305,106.75
Other -- HVAC Service Type: C Size:20 (Other)	**Component Description:** **Amount:**	AC to support DTS 1 $36,789.00

Other Electrical Service: Cooling system and control wiring.	**Component Description:** **Amount:**	Recovering cost of small electrical parts need to install DTS1 transmitter. Pre Paid by WHKY. $4,602.46
	Component Description: **Amount:**	Parts needed for cable tray to support electrical install of WHKY DTS1 transmitter $4,013.01
	Component Description: **Amount:**	Billing back of charges paid by WHKY for small electrical parts needed for install of DTS1 and DTS2 Transmitter $8,300.95
	Component Description: **Amount:**	Recovery of Items paid for by WHKY for install of DTS1 transmitter Small coax and connectors for signal path $2,885.00
	Component Description: **Amount:**	Invoice for Long Communications to recover small electrical items paid for by station. $5,899.37
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	

Transformer 3 phase/480v - 300 KVA	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 86.8 . 106 kW	**Component Description:** Rohde and Schwarz invoice for 25% down payment. **Amount:** $489,189.50 **Component Description:** 25% down payment to Rohde and Schwarz for DTS1 transmitter **Amount:** $489,189.50
Channel 14 -- Additional field engineering time, 5 days	Information not provided.
Channel 14 Mask Filter	Information not provided.
Other Electrical Service: Support for cooling system and outside equipment	Information not provided.
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Transformer 3 phase/480v - 150 KVA	Information not provided.
RF Consulting Engineer	Information not provided.

UHF - Liquid Cooled Solid State Transmitter 3 kW	**Component Description:**	Rohde and Schwarz 75 % final payment on transmitter for DTS2 tax portion of bill.
	Amount:	$10,728.31
	Component Description:	Rohde and Schwarz 75 % final payment on transmitter for DTS2
	Amount:	$114,946.50
	Component Description:	Rohde and Schwarz 25 % down payment on transmitter for DTS2
	Amount:	$38,315.50
	Component Description:	25% down payment to Rohde and Schwarz for DTS2 transmitter
	Amount:	$40,915.50
	Component Description:	75% final payment to Rohde and Schwarz for DTS2 transmitter. This invoice include Tax in the amount of 11,456.31 that is not shown on the quote from R&S
	Amount:	$134,202.81

Cost Information

Antennas

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna ATW16H3-HSP5-14	**$369,230.00**	**$119,896.10**		**$3,496.10**	
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	N/A	N/A
Interim antenna rental and installation - Cost will depend on antenna size and height and /or complexity of tower.	$115,500.00	$110,000.00	N/A	$0.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	$247,000.00	$3,496.10	***System Notice: Estimate adjusted and locked because line has been superseded. ***	$3,496.10	N/A
Primary Antenna ATW19H3-ESCX-14H	**$170,947.00**	**$168,607.00**		**$136,647.00**	

Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$22,000.00	N/A	$8,820.00	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	$12,300.00	$11,700.00	N/A	N/A	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	N/A	N/A
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	***$123,507.00***	$123,507.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***	$123,507.00	N/A
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	$5,260.00	$5,000.00	N/A	$4,320.00	N/A

Primary Antenna ALP16M4-ESBR-14	**$116,646.33**	**$114,306.33**		**$74,006.33**	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	$5,260.00	$5,000.00	N/A	$4,800.00	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$22,000.00	N/A	N/A	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	$12,300.00	$11,700.00	N/A	N/A	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	N/A	N/A

UHF - High Power, Side Mount, basic slot antenna, 10 kW input, directional,, elliptically or circularly polarized	***$69,206.33***	$69,206.33	***System Notice: Estimate adjusted and locked because line has been superseded. ***	$69,206.33	N/A
Sub-total	$656,823.33	$402,809.43	N/A	$214,149.43	N/A
Total for all systems	$6,791,211.64	$3,939,265.88	N/A	$2,183,804.88	N/A

Components

Actual Information Description	File Name
Sweep test of existing antenna	Information not provided.
Interim antenna rental and installation - Cost will depend on antenna size and height and/or complexity of tower.	**Component Description:** Install of Interim Antenna DTS1 Site (Antenna ERI I230 ECW-8-14) **Amount:** $8,500.00

UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	**Component Description:** **Amount:**	Payment of DTS1 and DTS2 Standby antennas shipping charges. $3,496.10
	Component Description: **Amount:**	ERI 100 percent payment for Standby antenna for DTS1 and DTS2. $93,098.00
Side mount brackets for high power antennas (if not included in antenna base cost)	**Component Description:** **Amount:**	Side mount brackets DTS1 2nd 30 percent payment to ERI $2,940.00
	Component Description: **Amount:**	Side mount brackets DTS1 1st 30 percent payment to ERI $2,940.00
	Component Description: **Amount:**	Side mount brackets DTS1 3rd 30 percent payment to ERI $2,940.00
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	
Sweep test of existing antenna	Information not provided.	

UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	**Component Description:** **Amount:**	Antenna DTS2 Second 30 percent payment to ERI $41,169.00
	Component Description: **Amount:**	Antenna DTS1 third 30 percent payment to ERI $41,169.00
	Component Description: **Amount:**	Antenna DTS1 first 30 percent payment to ERI $41,169.00
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	**Component Description:** **Amount:**	Pattern scatter analysis 2nd 30 percent payment ERI $1,440.00
	Component Description: **Amount:**	Pattern scatter analysis 3rd 30 percent payment ERI $1,440.00
	Component Description: **Amount:**	Pattern scatter analysis 1st 30 percent payment ERI $1,440.00

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	**Component Description:** Pattern Scatter Analysis final 10 percent payment to ERI **Amount:** $480.00 **Component Description:** Pattern Scatter Analysis first 30 percent payment to ERI **Amount:** $1,440.00 **Component Description:** Pattern Scatter Analysis Second 30 percent payment to ERI **Amount:** $1,440.00 **Component Description:** Pattern Scatter Analysis Third 30 percent payment to ERI **Amount:** $1,440.00
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.
Sweep test of existing antenna	Information not provided.

UHF - High Power, Side Mount, basic slot antenna, 10 kW input, directional,, elliptically or circularly polarized	**Component Description:** **Amount:**	Antenna DTS2 Second 30 percent payment to ERI $20,761.90
	Component Description: **Amount:**	Antenna DTS2 first 30 percent payment to ERI $20,761.90
	Component Description: **Amount:**	Final 10% due on Invoice for antenna on WHKY TV DTS 2 $6,920.63
	Component Description: **Amount:**	Antenna DTS2 Third 30 percent payment to ERI $20,761.90

Cost Information

Transmission Line

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	**$162,400.00**	**$0.00**		**$0.00**	
Rigid Transmission Line - copper, 7 3 /16"	$162,400.00	$0.00	Using Old line on tower that was used for channel 14 analog.	N/A	N/A
Interim Transmission Line	**$78,750.00**	**$75,000.00**		**$14,321.91**	
Flexible Air Transmission Line - dielectric, 5"	$78,750.00	$75,000.00	N/A	$14,321.91	N/A
Primary Transmission Line	**$50,500.00**	**$48,000.00**		**$39,958.80**	
Rigid Transmission Line - copper, 6 1/8"	$50,500.00	$48,000.00	N/A	$39,958.80	N/A
Primary Transmission Line	**$161,600.00**	**$161,600.00**		**$112,301.77**	
Rigid Transmission Line - copper, 6 1/8"	$161,600.00	$161,600.00	N/A	$112,301.77	N/A
Sub-total	$453,250.00	$284,600.00	N/A	$166,582.48	N/A
Total for all systems	$6,791,211.64	$3,939,265.88	N/A	$2,183,804.88	N/A

Components

Actual Information Description	File Name
Rigid Transmission Line - copper, 7 3/16"	Information not provided.
Flexible Air Transmission Line - dielectric, 5"	**Component Description:** DTS1 Air Flex Line 1st Payment to ERI **Amount:** $4,773.97 **Component Description:** DTS1 Air Flex Line 3rd Payment to ERI **Amount:** $4,773.97 **Component Description:** DTS1 Air Flex Line 2nd Payment to ERI **Amount:** $4,773.97
Rigid Transmission Line - copper, 6 1/8"	**Component Description:** Transmission Line for DTS 1 1st 30 percent payment ERI **Amount:** $13,319.60 **Component Description:** Transmission Line for DTS 1 2nd 30 percent payment ERI **Amount:** $13,319.60 **Component Description:** Transmission Line for DTS 1 3rd 30 percent payment ERI **Amount:** $13,319.60

Rigid Transmission Line - copper, 6 1/8"	**Component Description:**	Transmission Line for DTS 2 final 10 percent payment ERI
	Amount:	$11,230.18
	Component Description:	Transmission Line for DTS 2 2nd 30 percent payment ERI
	Amount:	$33,690.53
	Component Description:	Transmission Line for DTS 2 3rd 30 percent payment ERI
	Amount:	$33,690.53
	Component Description:	Transmission Line for DTS 2 1st 30 percent payment ERI
	Amount:	$33,690.53

Cost Information

Tower Equipment and Rigging Costs

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Tower	**$84,200.00**	**$0.00**		**$0.00**	
Short Tower (less than 500')	$84,200.00	$0.00	No new rigging work is expected for existing studio tower and antenna to be used for interim facility.	N/A	N/A
New tower	*$0.00*	$0.00	Existing tower will be employed with no modifications expected to be required.	N/A	N/A
Primary Tower TOWER	**$96,800.00**	**$200,655.00**		**$109,013.00**	
Structural engineering tower load study for well documented tower	$12,600.00	$12,000.00	N/A	N/A	N/A
Short Tower (less than 500')	$84,200.00	$188,655.00	Per Attached ERI Quote "WHKY Proposal DTS1 Tower Work"	$109,013.00	N/A
Primary Tower TOWER	**$381,100.00**	**$362,000.00**		**$171,152.00**	

Minor tower reinforcement /modifications	$158,000.00	$150,000.00	N/A	N/A	N/A
Structural engineering tower load study for well documented tower	$12,600.00	$12,000.00	N/A	N/A	N/A
Tall Tower (greater than 500')	$210,500.00	$200,000.00	N/A	$171,152.00	N/A
Sub-total	$562,100.00	$562,655.00	N/A	$280,165.00	N/A
Total for all systems	$6,791,211.64	$3,939,265.88	N/A	$2,183,804.88	N/A

Components

Actual Information Description	File Name
Short Tower (less than 500')	Information not provided.
New tower	Information not provided.
Structural engineering tower load study for well documented tower	Information not provided.

Short Tower (less than 500')	**Component Description:** **Amount:** **Component Description:** **Amount:**	Integrity Broadcast Services LLC DTS Site 1 60 Percent Payment $65,407.80 Integrity Broadcast Services LLC DTS Site 1 40 Percent Final Payment $43,605.20
Minor tower reinforcement /modifications	Information not provided.	
Structural engineering tower load study for well documented tower	Information not provided.	
Tall Tower (greater than 500')	**Component Description:** **Amount:** **Component Description:** **Amount:**	Integrity Broadcast Services LLC DTS Site 2 60 Percent Payment $102,691.20 Integrity Broadcast Services LLC DTS Site 2 Final 40 Percent Payment $68,460.80

Cost Information

Outside Professional Services

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	**$268,790.00**	**$258,875.00**		**$23,519.00**	
399 Outside work services	***$28,125.00***	$28,125.00	Outside Engineering Services not included in original 399.	$19,269.00	Outside Engineering Services not included in original 399
Additional Field Engineering Service, 60 Days	***$60,000.00***	$60,000.00	Additional field engineering required due to land mobile interference issues and DTS requirements.	N/A	N/A
Comprehensive coverage verification via field study, if needed	$84,200.00	$80,000.00	In order for the DTS system to operate with minimal mutual interference, it is necessary to verify coverage via field study work.	N/A	N/A

Attorney Fees - Prepare and File request for Special Temporary Authorization	$7,360.00	$7,000.00	N/A	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	$4,210.00	$4,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	$2,365.00	$2,250.00	N/A	N/A	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	$4,210.00	$4,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$5,000.00	N/A	$0.00	N/A
DTS Site RF Consulting Engineer - Terrain-shielded Facility	$0.00	$0.00	This a critical non-terrain shielded DTS facility.	N/A	N/A
DTS Site RF Consulting Engineer - Critical Facility	$8,420.00	$8,000.00	N/A	$750.00	N/A

Prepare request for Special Temporary Authorization	$4,100.00	$3,000.00	N/A	N/A	N/A
RF Consulting Engineer Fees-Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	$1,580.00	$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	$1,580.00	$1,500.00	N/A	N/A	N/A
RF Consulting Engineer Fees-Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	$2,105.00	$2,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	$3,155.00	$3,000.00	N/A	N/A	N/A

Address transition timing and coordination issues w/ other stations and wireless	$2,630.00	$2,500.00	N/A	N/A	N/A
Project management of the transition	$39,500.00	$37,500.00	N/A	N/A	N/A
Perform engineering study for new channel assignment and antenna development	$7,360.00	$7,000.00	N/A	$3,500.00	N/A
Prepare and or review reimbursement form	$2,630.00	$2,500.00	N/A	N/A	N/A
Sub-total	$268,790.00	$258,875.00	N/A	$23,519.00	N/A
Total for all systems	$6,791,211.64	$3,939,265.88	N/A	$2,183,804.88	N/A

Components

Actual Information Description	File Name	
399 Outside work services	**Component Description:**	Reimbursement expenses WHKY. RF Interference DTS-1 analysis for Ch 14 to determine correct mask filter to avoid interference to land mobile services in 460-470 MHz band
	Amount:	$5,000.00

Component Description:	Search for alternate UHF channel assignment
Amount:	$1,625.00
Component Description:	Attorney FCC 399 work
Amount:	$156.00
Component Description:	Work on Form 399 for reimbursement expenses. FCC filing issues accepting a DTS Form.
Amount:	$4,000.00
Component Description:	Reimbursement expenses WHKY. RF Interference DTS-2 analysis for Ch 14 to determine correct mask filter to avoid interference to land mobile services in 460-470 MHz band
Amount:	$5,000.00
Component Description:	Reimbursement expenses WHKY. RF Interference DTS-2 analysis for Ch 14 to determine correct mask filter to avoid interference to land mobile services in 460-470 MHz band. Additional work.
Amount:	$2,500.00

	Component Description: **Amount:**	Attorney Form 399 work, problems with submission because of DTS $988.00
Additional Field Engineering Service, 60 Days	Information not provided.	
Comprehensive coverage verification via field study, if needed	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	**Component Description:** **Amount:** **Component Description:** **Amount:**	Attorney planning, advising, loading minor mod application $208.00 Schedule 2100 attorney work $806.00

DTS Site RF Consulting Engineer - Terrain-shielded Facility	Information not provided.
DTS Site RF Consulting Engineer - Critical Facility	**Component Description:** Study Coverage Issue on South area of Charlotte between DTS1 and DTS2 **Amount:** $750.00
Prepare request for Special Temporary Authorization	Information not provided.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Project management of the transition	Information not provided.

Perform engineering study for new channel assignment and antenna development	**Component Description:** **Amount:**	Engineering work for new Channel and Antenna. Prepare Engineering section of FCC Form 2100 $3,500.00
Prepare and or review reimbursement form	Information not provided.	

Cost Information

Other Expenses

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co Justificat
Other Expenses	**$331,335.00**	**$330,730.00**		**$284,444.60**	
Copper Ground Strap	***$3,000.00***	$3,000.00	N/A	$2,990.69	N/A
Water system tray support DTS1	***$28,000.00***	$28,000.00	N/A	$27,022.00	N/A
SFN Adapter	***$26,000.00***	$26,000.00	N/A	$24,890.00	N/A
Roof work for DTS1	***$5,500.00***	$5,500.00	N/A	$3,250.00	N/A
Road Work DTS 1 Baker Mt	***$60,000.00***	$60,000.00	N/A	$59,365.48	N/A
Remove 2 Cab of 4 cab IOT TX	***$40,000.00***	$40,000.00	N/A	$33,262.50	N/A
Paint of inside DTS1 building	***$4,000.00***	$4,000.00	N/A	$1,505.00	N/A
Move UPS for DTS1	***$10,500.00***	$10,500.00	N/A	$9,255.00	N/A
Master Clock System for DTS Timing	***$16,000.00***	$16,000.00	N/A	$15,309.30	N/A
File Change to CP to make antennas match CP	***$4,000.00***	$4,000.00	N/A	$3,500.00	N/A
DTS2 Ch 14 tempory Filter	***$20,000.00***	$20,000.00	N/A	$19,943.32	N/A
DTS1 Ch 14 tempory Filter	***$20,000.00***	$20,000.00	N/A	$19,894.00	N/A

DTS 1 and 2 Inside Transmission Line	***$36,145.00***	$36,145.00	N/A	$36,145.00	N/A
DTS 1 and 2 Inside Patch Panels	***$10,000.00***	$10,000.00	N/A	$9,729.30	N/A
Channel 14 Land Mobile Coordination notification letters	***$10,000.00***	$10,000.00	Need for DTV channel 14 to Land Mobile inference	$10,000.00	N/A
MVPD Notification of Channel Change	***$2,500.00***	$2,500.00	N/A	$1,250.00	N/A
Develop and air announcement of upcoming channel change	***$2,500.00***	$2,500.00	Development and airing of channel change announcements to ensure uninterrupted service to the public.	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	$335.00	$325.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	$1,110.00	$1,070.00	N/A	$0.00	N/A
DTV Medical Facility Notification	$11,550.00	$11,000.00	N/A	$4,750.00	N/A

Other Distributed Transmission System Expenses Not listed, Name: DTS Field measurements	***$10,000.00***	$10,000.00	DTS Field measurements are included as part of comprehensive coverage verification costs. But will be required as part of this project. We will need to develop null points to protect reception of the station.	N/A	N/A
Equipment Storage	***$2,500.00***	$2,500.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	***$5,000.00***	$5,000.00	N/A	$2,143.60	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	***$2,500.00***	$2,500.00	N/A	$239.41	N/A
FCC Filing Fees - Special Temporary Authorization request	$195.00	$190.00	N/A	N/A	N/A
Sub-total	$331,335.00	$330,730.00	N/A	$284,444.60	N/A
Total for all systems	$6,791,211.64	$3,939,265.88	N/A	$2,183,804.88	N/A

Components

Actual Information Description	File Name

Copper Ground Strap	**Component Description:** **Amount:**	Grounding strap to ground transmitters at WHKY DTS0 DTS1 and DTS2 $2,990.69
Water system tray support DTS1	**Component Description:** **Amount:**	Cable tray to support water lines connecting transmitter, water pumps, and outside heat ex-changers for WHKY DTS1 $27,022.00
SFN Adapter	**Component Description:** **Amount:**	ITV Techs Modulation Adapter for SFN Network (DTS) $24,890.00
Roof work for DTS1	**Component Description:** **Amount:**	Invoice for Mack's Roofing to make changes after install of new AC system, and removal of Harris IOT transmitter. $3,250.00

Road Work DTS 1 Baker Mt	**Component Description:**	Road work to get road to DTS 1 site accessible to large trucks
	Amount:	$28,088.48
	Component Description:	Invoice for road work post tower crew and trucks delivering equipment
	Amount:	$31,277.00
Remove 2 Cab of 4 cab IOT TX	**Component Description:**	Remove 2 Cab of 4 cab IOT TX Reconfig to run with out driver
	Amount:	$33,471.80
	Component Description:	Remove 2 Cab of 4 cab IOT TX Reconfig to run with out driver
	Amount:	$33,262.50
Paint of inside DTS1 building	**Component Description:**	Partial Invoice for CertaPro Painters to paint inside of building after removal of Harris IOT Transmitter.
	Amount:	$1,505.00
Move UPS for DTS1	**Component Description:**	Invoice to move large UPS at DTS1 site to make room for TX
	Amount:	$9,255.00

Master Clock System for DTS Timing	**Component Description:** **Amount:**	MasterClock System to Provide timing for DTS system $15,309.30
File Change to CP to make antennas match CP	**Component Description:** **Amount:**	Engineering Part of Application for modification of construction permit to replace models for DTS1 and DTS2 $3,500.00
DTS2 Ch 14 tempory Filter	**Component Description:** **Amount:** **Component Description:** **Amount:**	Shipping of DTS 2 filter from Grand Island, NY to Charlotte NC. Full 48 foot trailer. $3,500.00 Move Temp filter from New York State to Charlotte NC DTS2 site. $16,443.32

DTS1 Ch 14 tempory Filter	**Component Description:**	Move DTS 1 filter from SC to NC and re install at WHKY DTS1 site
	Amount:	$17,494.00
	Component Description:	Payment to transport DTS 1 filter from SC to NC
	Amount:	$2,400.00
DTS 1 and 2 Inside Transmission Line	**Component Description:**	Inside Pipe DTS1 and DTS2. Used to tie together transmitter, filter, and transmission line.
	Amount:	$35,116.90
	Component Description:	WHKY ERI Inside Pipe DTS1 and 2 Shipping Charges
	Amount:	$1,028.10
DTS 1 and 2 Inside Patch Panels	**Component Description:**	100 percent payment for patch panels for DTS1 and DTS2 inside pipe work
	Amount:	$9,729.30

Channel 14 Land Mobile Coordination notification letters	**Component Description:** **Amount:**	2nd have of Land Mobile Study for channel 14 $5,000.00
	Component Description: **Amount:**	Land Mobile Services WHKY Land Mobile Web Site Development $5,000.00
MVPD Notification of Channel Change	**Component Description:** **Amount:**	Payment for MVPD Notifications $1,250.00
Develop and air announcement of upcoming channel change	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Form 2100 minor change CP application	**Component Description:** **Amount:**	Filing fee paid to FCC 2100 CP application $1,070.00
DTV Medical Facility Notification	**Component Description:** **Amount:**	DTV Medical Facility Notification billing $4,750.00
Other Distributed Transmission System Expenses Not listed, Name: DTS Field measurements	Information not provided.	
Equipment Storage	Information not provided.	

Equipment Delivery and Handling Charges	**Component Description:** **Amount:**	WHKY DTS 2 ERI Shipping charges $2,143.60
Disposal Costs (for equipment and other waste, net of any salvage value)	**Component Description:** **Amount:**	Invoice for Tesla RF to recover cost to trash hauled to landfill. Invoice covers 2019 and 2020. $239.41
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$6,791,211.64	$3,939,265.88	$2,183,804.88

Reimbursement Status

Question	Response
The facility has ceased operating on its pre-auction channel.	Yes
Construction of final facilities or all necessary modifications are complete.	No
All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator.	No

Certification

Section	Question	Response
Submission of Estimated Expenses Statements	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
	1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.	

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

	8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Thomas Edmund Long , Jr .** *Director of Engineering* 05/04/2021

Certification

Section	Question	Response
Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
	1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station’s facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD) .
6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

	8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Thomas Edmund Long , Jr .** *Director of Engineering* 05/04/2021

Attachments